

AISHWARYA TECHNOLOGIES AND TELECOM LIMITED

ATL -1315 Series Handheld Smart OTDR



Key points

- Multiple wavelengths (850, 1300, 1310, 1490, 1550 and 1625 nm) support LAN, datacenters, PON, FTTx and outside plant applications as well as customized wavelengths.
- 800x480, 7-inch TFT color LCD touch screen places power and convenience at your finger steps
- Minimum 2.5cm resolution which enables it to locate the event point accurately
- Event dead zone of 0.5m which makes the near connection easy to be supervised
- Automatic monitoring and alarm of incoming optical signals
- Bi-directional Analysis to minimize the possible mismatches
- A maximum dynamic range of 50dB, and 256k data sampling points
- Penetrate an optical splitter of up to 1:128

Technical Specifications

OTDR Module	Wavelength \pm 20nm	Dynamic Range (dB)	EDZ(m)	ADZ(m)
1315-A	1310/1550nm	30/28	0.5	3
1315-B	1310/1550nm	37/35	0.5	3
1315-C	1310/1550nm	45/43	0.5	3
1315-D	1310/1550nm	50/50	0.5	3
1315-F3A	1310/1550/1625nm	37/35/35	0.5	3
1315-Q	1310/1550/850/1300nm	40/38/26/34	0.7	5

Distance Accuracy	$\pm(0.75 + \text{sample interval} + 0.0025\% \times \text{range})$ (excluding the refractivity placement error) (m)
Ranging resolution	0.05, 0.1, 0.2, 0.5, 1, 2, 4, 8, 16 and 32m
Test range	0.4, 0.8, 1.6, 3.2, 6.4, 16, 32, 64, 128, 256 and 512km (single-mode); 0.4, 0.8, 1.6, 3.2, 6.4, 16 and 32km (850nm multi-mode)
Pulse Width	3, 5, 10, 30, 80, 160, 320, 640, 1280, 5120, 10240 and 20480ns 3, 5, 10, 30, 80, 160, 320, 640 and 1280ns(850nm multi-mode)
Sampling Point	256k
Linearity	0.03dB/dB
Loss Resolution	0.001 dB
Refractive Index	1.00000 ~ 1.99999(step: 0.00001)
OPM	850nm to 1650nm, +10 to -70dBm
VFL	650 \pm 20nm, 2mW, Class-2
OLS	Wavelengths same as OTDR (i.e. 1310, 1550nm)
Display	800 \times 480, 7-inch TFT color LCD (a capacitive touch screen in the standard configuration, and a resistive touch screen optional)
Optical Output Interface	FC/UPC (standard configuration, with SC/UPC, SC/APC and FC/APC (Optional)
Power Supply	AC/DC adapter: AC100V~240V, 50/60Hz and 1.5A DC: 17V \pm 3V(2A) Internal Li battery: 11.1V, 6800mAh, battery operating time: 12 h
External interfaces	USB, Micro-USB, 10M/100M Ethernet, earphone and Micro SD
Dimensions	252mm(W) \times 180mm (H) \times 55mm (D)
Weight	About 1.8kg
Environmental adaptability	Operating temperature: -10 $^{\circ}$ C~+50 $^{\circ}$ C (battery charging: 5 $^{\circ}$ C ~40 $^{\circ}$ C) Storage temperature: -40 $^{\circ}$ C ~+70 $^{\circ}$ C (battery: -20 $^{\circ}$ C ~60 $^{\circ}$ C) RH: 5% ~95%, no condensation